

## Annex A3 to the DVD-R Recorder and DVD-RW Recorder Patent License Agreement

Essential Philips patents relevant to DVD-R -RW Recorder / DVD-RW Data part

<i>COUNTRY</i>	<i>REFERENCE</i>	<i>FILING NR</i>	<i>FILING DATE</i>	<i>PUBLICATION NR</i>	<i>GRANT DATE</i>	<i>GRANT NR</i>	<i>EXPIRY DATE</i>	<i>TITLE</i>
AR	N 012925 -	316796	07-May-90		07-Aug-01	255185	07-Aug-16	Additional information in pregroove
AR	N 014746 -	331023	15-Feb-95		27-Jul-00	254412	27-Jul-15	EFM+ -Modulation scheme for high density disc.
AR	N 014752 -	331070	17-Feb-95		21-Nov-01	255358	21-Nov-16	Block format, with error coding interleave.
AT	N 012571 -	89201206.3	12-May-89	0342748-A1	02-Feb-94	E101295	12-May-09	Application code on information carrier
AT	N 012925 -	90201094.1	02-May-90	0397238-A1	22-Nov-95	E130695	02-May-10	Additional information in pregroove
AT	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	E173110	01-Feb-15	EFM+ -Modulation scheme for high density disc.
AT	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	E195033	14-Feb-15	Block format, with error coding interleave.
AT	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	E201527	26-Aug-16	EFM+ improved
AT	Q 088002 -	89200093.6	17-Jan-89	0325329-A1	01-Dec-93	E98040	17-Jan-09	WO linking rules
AT	Q 088006 -	88200708.1	13-Apr-88	0288114-A1	10-Feb-93	E85720	13-Apr-08	Premastered information about write strategy
AU	N 012571 -	89-34805	16-May-89	634709	26-Jul-93	634709	16-May-09	Application code on information carrier
AU	N 012925 -	90-54718	07-May-90	640646	05-Jan-94	640646	07-May-10	Additional information in pregroove
AU	N 014746 -	95-14240	01-Feb-95	95-14240	05-Nov-98	692822	01-Feb-15	EFM+ -Modulation scheme for high density disc.
AU	N 014752 -	95-15449	14-Feb-95	95-15449	09-Jul-98	689203	14-Feb-15	Block format, with error coding interleave.
AU	N 015452 -	96-66667	26-Aug-96	70391	15-Jul-99	703791	26-Aug-16	EFM+ improved
AU	Q 088002 -	89-28559	18-Jan-89	639663	06-Dec-93	639663	18-Jan-09	WO linking rules
AU	Q 088006 -	88-15037	21-Apr-88	629792	26-Feb-93	629792	21-Apr-08	Premastered information about write strategy
BE	N 012571 -	89201206.3	12-May-89	0342748-A1	02-Feb-94	0342748	12-May-09	Application code on information carrier
BE	N 012925 -	90201094.1	02-May-90	0397238-A1	22-Nov-95	0397238	02-May-10	Additional information in pregroove
BE	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ -Modulation scheme for high density disc.
BE	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format, with error coding interleave.
BE	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
BE	Q 088002 -	89200093.6	17-Jan-89	0325329-A1	01-Dec-93	0325329	17-Jan-09	WO linking rules
BG	N 014746 -	100774	01-Feb-95		21-Jul-99	62106	01-Feb-15	EFM+ -Modulation scheme for high density disc.
BR	N 012925 -	PI9002098	04-May-90	PI9002098	24-Aug-99	PI9002098.7	04-May-10	Additional information in pregroove

Essential Philips patents relevant to DVD-R -RW Recorder / DVD-RW Data part

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BR	N 014746 -	PI9506787.6	01-Feb-95	PI9506787.6	07-Aug-01	PI9506787.6	01-Feb-15	EFM+ -Modulation scheme for high density disc.
BR	N 014746 A	PI9510740.1	01-Feb-95	PI9510740.1			01-Feb-15	EFM+ -Modulation scheme for high density disc.
BR	N 014746 B	PI9510741.0	01-Feb-95		27-Apr-04	PI9510741.0	01-Feb-15	EFM+ -Modulation scheme for high density disc.
BR	Q 088002 -	PI8900232.6	19-Jan-89		24-Nov-98	PI8900232.6	19-Jan-09	WO linking rules
BR	Q 088006 -	PI8801854.7	19-Apr-88		29-Dec-98	PI8801854.7	19-Apr-08	Premastered information about write strategy
BW	N 014746 -	98-00054	22-Apr-98		01-Dec-99	BW/P/99/000122	12-Apr-18	EFM+ -Modulation scheme for high density disc.
BW	N 014752 -	98-00046	21-Apr-98		01-Dec-99	BW/P99/000231	21-Apr-18	Block format, with error coding interleave.
BW	N 015452 -	98-00063	22-Apr-98		01-Dec-99	BW/P/99/000222	22-Apr-18	EFM+ improved
CA	N 011915 -	549716	20-Oct-87		25-Feb-92	1296425	25-Feb-09	Distribution of write energy
CA	N 012571 -	599668	15-May-89		05-Jul-94	1330591	05-Jul-11	Application code on information carrier
CA	N 012925 -	2016055	04-May-90		02-Jan-01	2016055	04-May-10	Additional information in pregroove
CA	N 014746 -	2183355	01-Feb-95		30-May-06	2183355	01-Feb-15	EFM+ -Modulation scheme for high density disc.
CA	N 014746 A	2456968	01-Feb-95		25-Jan-05	2456968	01-Feb-15	EFM+ -Modulation scheme for high density disc.
CA	N 014752 -	2160572	14-Feb-95		16-Dec-03	2160572	14-Feb-15	Block format, with error coding interleave.
CA	N 015452 -	2205565	26-Aug-96		09-Jan-07	2205565	26-Aug-16	EFM+ improved
CA	Q 088002 -	588583	19-Jan-89		06-Jul-93	1319983	06-Jul-10	WO linking rules
CA	Q 088006 -	564218	16-Dec-88		14-Jul-92	1305253	16-Dec-08	Premastered information about write strategy
CH	N 012571 -	89201206.3	12-May-89	0342748-A1	02-Feb-94	0342748	12-May-09	Application code on information carrier
CH	N 012925 -	90201094.1	02-May-90	0397238-A1	22-Nov-95	0397238	02-May-10	Additional information in pregroove
CH	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ -Modulation scheme for high density disc.
CH	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format, with error coding interleave.
CH	Q 088002 -	89200093.6	17-Jan-89	0325329-A1	01-Dec-93	0325329	17-Jan-09	WO linking rules
CN	N 012571 -	89103475.7	15-May-89	1037980-A	05-Mar-93	89103475.7	15-May-09	Application code on information carrier
CN	N 014746 -	95192574.1	01-Feb-95	1155349-A			01-Feb-15	EFM+ -Modulation scheme for high density disc.
CN	N 014746 A	200310102653.2	01-Feb-95	1722283-A			01-Feb-15	EFM+ -Modulation scheme for high density disc.
CN	N 014752 -	95190261.X	14-Feb-95	1125994-A	09-Jun-04	95190261.X	14-Feb-15	Block format, with error coding interleave.
CN	N 014752 A	02122058.1	14-Feb-95	1389867-A			14-Feb-15	Block format, with error coding interleave.

Essential Philips patents relevant to DVD-R -RW Recorder / DVD-RW Data part

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CN	N 014752 B	200610095942.8	14-Feb-95				14-Feb-15	Block format, with error coding interleave.
CN	N 014752 C	200610093455.8	14-Feb-95				14-Feb-15	Block format, with error coding interleave.
CN	N 015452 -	96191244.8	26-Aug-96	1166225-A	14-Apr-04	96191244.8	26-Aug-16	EFM+ improved
CN	N 015452 A	02160474.6	26-Aug-96	1516175-A	08-Aug-07	1331148	26-Aug-16	EFM+ improved
CN	N 015452 B	200610101665.7	26-Aug-96	1909097A			26-Aug-16	EFM+ improved
CN	N 016078 -	97193136.4	20-Oct-97	1214147-A	29-Oct-03	97193136.4	20-Oct-17	Micro formatting
CN	Q 088002 -	89100407.6	21-Jan-89	1034445-A	23-Dec-92	89100407.6	21-Jan-09	WO linking rules
CN	Q 088006 -	88102870.3	18-Apr-88	88102870-A	03-Jan-93	88102870.3	18-Apr-08	Premastered information about write strategy
CZ	N 012571 -	89-PV2870	12-May-89		30-Jul-98	284218	12-May-09	Application code on information carrier
CZ	N 014746 -	96-PV2389	01-Feb-95		01-Aug-02	290751	01-Feb-15	EFM+ -Modulation scheme for high density disc.
DE	N 012571 -	89201206.3	12-May-89	0342748-A1	02-Feb-94	68912823.1	12-May-09	Application code on information carrier
DE	N 012925 -	90201094.1	02-May-90	0397238-A1	22-Nov-95	69023692.1	02-May-10	Additional information in pregroove
DE	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	69505794.4	01-Feb-15	EFM+ -Modulation scheme for high density disc.
DE	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	69518126.2	14-Feb-15	Block format, with error coding interleave.
DE	N 014789 -	95910709.5	21-Mar-95	0702827-A1	26-Sep-01	69522880.3	21-Mar-15	DC-free channel code
DE	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	69612955.8	26-Aug-16	EFM+ improved
DE	N 016078 -	97943105.3	20-Oct-97	0880780-A1	28-Apr-04	69728859.5	20-Oct-17	Micro formatting
DE	Q 088002 -	89200093.6	17-Jan-89	0325329-A1	01-Dec-93	68910990.3	17-Jan-09	WO linking rules
DE	Q 088006 -	88200708.1	13-Apr-88	0288114-A1	10-Feb-93	3878293	13-Apr-08	Premastered information about write strategy
DK	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ -Modulation scheme for high density disc.
DK	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format, with error coding interleave.
ES	N 012571 -	89201206.3	12-May-89	0342748-A1	02-Feb-94	0342748	12-May-09	Application code on information carrier
ES	N 012925 -	90201094.1	02-May-90	0397238-A1	22-Nov-95	2080783	02-May-10	Additional information in pregroove
ES	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	2126877	01-Feb-15	EFM+ -Modulation scheme for high density disc.
ES	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	2150551	14-Feb-15	Block format, with error coding interleave.
ES	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
ES	Q 088002 -	89200093.6	17-Jan-89	0325329-A1	01-Dec-93	0325329	17-Jan-09	WO linking rules

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ES	Q 088006 -	88200708.1	13-Apr-88	0288114-A1	10-Feb-93	0288114	13-Apr-08	Premastered information about write strategy
FI	N 014746 -	963151	01-Feb-95		31-Aug-06	117311	01-Feb-15	EFM+ -Modulation scheme for high density disc.
FI	N 014746 A	20060169	01-Feb-95				01-Feb-15	EFM+ -Modulation scheme for high density disc.
FI	N 014746 B	20060170	01-Feb-95				01-Feb-15	EFM+ -Modulation scheme for high density disc.
FR	N 012571 -	89201206.3	12-May-89	0342748-A1	02-Feb-94	0342748	12-May-09	Application code on information carrier
FR	N 012925 -	90201094.1	02-May-90	0397238-A1	22-Nov-95	0397238	02-May-10	Additional information in pregroove
FR	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ -Modulation scheme for high density disc.
FR	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format, with error coding interleave.
FR	N 014789 -	95910709.5	21-Mar-95	0702827-A1	26-Sep-01	0702827	21-Mar-15	DC-free channel code
FR	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
FR	N 016078 -	97943105.3	20-Oct-97	0880780-A1	28-Apr-04	0880780	20-Oct-17	Micro formatting
FR	Q 088002 -	89200093.6	17-Jan-89	0325329-A1	01-Dec-93	0325329	17-Jan-09	WO linking rules
FR	Q 088006 -	88200708.1	13-Apr-88	0288114-A1	10-Feb-93	0288114	13-Apr-08	Premastered information about write strategy
GB	N 012571 -	89201206.3	12-May-89	0342748-A1	02-Feb-94	0342748	12-May-09	Application code on information carrier
GB	N 012925 -	90201094.1	02-May-90	0397238-A1	22-Nov-95	0397238	02-May-10	Additional information in pregroove
GB	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ -Modulation scheme for high density disc.
GB	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format, with error coding interleave.
GB	N 014789 -	95910709.5	21-Mar-95	0702827-A1	26-Sep-01	0702827	21-Mar-15	DC-free channel code
GB	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
GB	N 016078 -	97943105.3	20-Oct-97	0880780-A1	28-Apr-04	0880780	20-Oct-17	Micro formatting
GB	Q 088002 -	89200093.6	17-Jan-89	0325329-A1	01-Dec-93	0325329	17-Jan-09	WO linking rules
GB	Q 088006 -	88200708.1	13-Apr-88	0288114-A1	10-Feb-93	0288114	13-Apr-08	Premastered information about write strategy
GR	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ -Modulation scheme for high density disc.
GR	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format, with error coding interleave.
GR	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
HK	N 012571 -	NOT GIVEN	12-May-89		14-Mar-96	0960457	12-May-09	Application code on information carrier
HK	N 012925 -	NOT GIVEN	02-May-90		12-Sep-96	0961696	02-May-10	Additional information in pregroove

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HK	N 014746 -	98114079.8	01-Feb-95	1012767-B1 1012767-B	31-Mar-00	HK1012767	31-Jan-15	EFM+ -Modulation scheme for high density disc.
HK	N 014752 -	98114633.7	14-Feb-95	1013358-A 1013358-B	02-Mar-01	HK1013358	13-Feb-15	Block format, with error coding interleave.
HK	N 014789 -	98114634.6	21-Mar-95	1013359-A 1013359-B	12-Apr-02	HK1013359	20-Mar-15	DC-free channel code
HK	N 015452 -	98103966.7	26-Aug-96	1004699-A 1004699-A	17-Dec-04	HK1004699	26-Aug-16	EFM+ improved
HK	Q 088002 -	NOT GIVEN	17-Jan-89		19-Oct-95	0951633	17-Jan-09	WO linking rules
HK	Q 088006 -	NOT GIVEN	13-Apr-88		25-Aug-94	0940877	13-Apr-08	Premastered information about write strategy
HU	N 012925 -	90-2679	04-May-90	90-2679	30-Aug-93	208192	04-May-10	Additional information in pregroove
HU	N 014746 -	P9602247	01-Feb-95		16-May-02	221085	01-Feb-15	EFM+ -Modulation scheme for high density disc.
HU	N 015452 -	P9801354	26-Aug-96		23-Jul-02	221391	26-Aug-16	EFM+ improved
ID	N 014746 -	P-950245	15-Feb-95		20-Jul-00	ID0005313	15-Feb-15	EFM+ -Modulation scheme for high density disc.
ID	N 014752 -	P-950251	16-Feb-95		19-Aug-04	ID0010921	16-Feb-15	Block format, with error coding interleave.
ID	N 014752 A	P00200400402	16-Feb-95	042897-A	28-Nov-06	UNKNOWN	16-Feb-15	Block format, with error coding interleave.
ID	N 015452 -	P-962496	02-Sep-96	016.164A	16-Aug-00	ID0005386	02-Sep-16	EFM+ improved
IE	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ -Modulation scheme for high density disc.
IE	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format, with error coding interleave.
IE	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
IL	N 015452 -	120740	26-Aug-96		27-Oct-00	120740	26-Aug-16	EFM+ improved
IN	N 014746 A	1577/Cal/98	13-Feb-95		27-Jul-01	185349	13-Feb-15	EFM+ -Modulation scheme for high density disc.
IN	N 014746 B	1578/Cal/98	13-Feb-95		20-Apr-01	184753	13-Feb-15	EFM+ -Modulation scheme for high density disc.
IN	N 014746 C	312/MAS/99	13-Feb-95				13-Feb-15	EFM+ -Modulation scheme for high density disc.
IN	N 014746 D	877/CHE/2004	13-Feb-95				13-Feb-15	EFM+ -Modulation scheme for high density disc.
IN	N 014746 E	878/CHE/2004	13-Feb-95				13-Feb-15	EFM+ -Modulation scheme for high density disc.
IN	N 014752 A	505/MAS/99	14-Feb-95		12-Dec-05	193791	14-Feb-15	Block format, with error coding interleave.
IN	N 015452 -	1530/Cal/96	28-Aug-96		28-May-04	191592	28-Aug-16	EFM+ improved
IN	N 015452 A	80/Kol/2003	28-Aug-96				28-Aug-16	EFM+ improved
IT	N 012571 -	89201206.3	12-May-89	0342748-A1	02-Feb-94	0342748	12-May-09	Application code on information carrier
IT	N 012925 -	90201094.1	02-May-90	0397238-A1	22-Nov-95	0397238	02-May-10	Additional information in pregroove

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IT	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ -Modulation scheme for high density disc.
IT	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format, with error coding interleave.
IT	N 014789 -	95910709.5	21-Mar-95	0702827-A1	26-Sep-01	0702827	21-Mar-15	DC-free channel code
IT	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
IT	Q 088002 -	89200093.6	17-Jan-89	0325329-A1	01-Dec-93	0325329	17-Jan-09	WO linking rules
IT	Q 088006 -	88200708.1	13-Apr-88	0288114-A1	10-Feb-93	0288114	13-Apr-08	Premastered information about write strategy
JP	N 012571 -	89-120610	16-May-89	90-50360	23-Oct-98	2840631	16-May-09	Application code on information carrier
JP	N 012925 -	90-119649	08-May-90	91-3168	10-Mar-06	3778452	08-May-10	Additional information in pregroove
JP	N 012925 A	02-117465	19-Apr-02		02-Jul-04	3572303	08-May-10	Additional information in pregroove
JP	N 013146 -	90-313817	19-Nov-90	91-176854	18-Feb-00	3035333	19-Nov-10	Discontinuous recording/reading using buffers
JP	N 014746 -	95-521693	01-Feb-95	97-512392	14-Mar-03	3408256	01-Feb-15	EFM+ -Modulation scheme for high density disc.
JP	N 014746 B	05-203695	01-Feb-95	06-024356	15-Dec-06	3892020	01-Feb-15	EFM+ -Modulation scheme for high density disc.
JP	N 014752 A	04-348053	14-Feb-95	05-129222			14-Feb-15	Block format, with error coding interleave.
JP	N 014789 -	95-525542	21-Mar-95	96-511405	29-Aug-03	3467276	21-Mar-15	DC-free channel code
JP	N 015087 A	06-156822	08-Nov-95				08-Nov-15	Data structure indicator in sector header
JP	N 015452 -	97-511019	26-Aug-96	98-508456	22-Dec-05	3754080	26-Aug-16	EFM+ improved
JP	N 015452 A	05-276620	26-Aug-96	06-087127	20-Apr-07	3946230	26-Aug-16	EFM+ improved
JP	N 016078 -	98-523380	20-Oct-97	00-504462			20-Oct-17	Micro formatting
JP	Q 088002 -	89-10068	20-Jan-89	89-220183	29-Oct-99	2995331	20-Jan-09	WO linking rules
JP	Q 088002 A	99-174968	20-Jan-89		13-Jul-01	3209983	20-Jan-09	WO linking rules
JP	Q 088006 -	88-92609	14-Apr-88	89-33726	04-Jun-99	2934634	14-Apr-08	Premastered information about write strategy
JP	Q 088006 A	98-42805	14-Apr-88	98-326437	02-Jun-06	3809851	14-Apr-08	Premastered information about write strategy
KR	N 011915 -	87-11994	29-Oct-87	95-6411	13-Oct-95	90182	14-Jun-10	Distribution of write energy
KR	N 012571 -	89-6501	16-May-89		22-May-98	148118	22-May-13	Application code on information carrier
KR	N 012925 -	90-6438	08-May-90		05-Oct-99	236888	08-May-10	Additional information in pregroove
KR	N 013146 -	90-18855	21-Nov-90		19-Mar-99	202354	21-Nov-10	Discontinuous recording/reading using buffers
KR	N 014746 -	96-704550	01-Feb-95	10-1997-0701388	08-Mar-05	0477168	01-Feb-15	EFM+ -Modulation scheme for high density disc.

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<i>COUNTRY</i>	<i>REFERENCE</i>	<i>FILING NR</i>	<i>FILING DATE</i>	<i>PUBLICATION NR</i>	<i>GRANT DATE</i>	<i>GRANT NR</i>	<i>EXPIRY DATE</i>	<i>TITLE</i>
KR	N 014746 A	10-2003-700492	2007-Apr-03	10-2004-0004394	11-Jan-05	0467125	01-Feb-15	EFM+ -Modulation scheme for high density disc.
KR	N 014752 -	95-704556	14-Feb-95	96-0702152	28-Nov-02	0364332	14-Feb-15	Block format, with error coding interleave.
KR	N 014789 -	95-705575	21-Mar-95	10-1996-0702930	14-Nov-05	10-0529807	21-Mar-15	DC-free channel code
KR	N 015452 -	97-702860	26-Aug-96	10-1997-0707543	02-May-05	0488634	26-Aug-16	EFM+ improved
KR	N 016078 -	98-705494	20-Oct-97	99-77347	26-Sep-05	0518641	20-Oct-17	Micro formatting
KR	Q 088002 -	89-507	19-Jan-89	89-012293	20-Jan-98	136098	20-Jan-13	WO linking rules
KR	Q 088006 -	88-4522	21-Apr-88		17-Nov-00	281379	21-Apr-08	Premastered information about write strategy
LU	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ -Modulation scheme for high density disc.
LU	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format, with error coding interleave.
MC	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ -Modulation scheme for high density disc.
MC	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format, with error coding interleave.
MX	N 012925 -	20585	04-May-90		18-Jul-94	175243	04-May-10	Additional information in pregroove
MX	N 014746 -	9603394	01-Feb-95		28-Jul-98	189493	01-Feb-15	EFM+ -Modulation scheme for high density disc.
MX	N 015452 -	973161	26-Aug-96		06-Oct-03	216755	26-Aug-16	EFM+ improved
MX	Q 088002 -	14578	18-Jan-89				18-Jan-09	WO linking rules
MY	N 014746 -	PI9500357	14-Feb-95		30-Apr-01	112136	30-Apr-16	EFM+ -Modulation scheme for high density disc.
MY	N 014752 -	PI9500378	15-Feb-95		30-Jun-04	117269	30-Jun-19	Block format, with error coding interleave.
MY	N 015452 -	PI9603603	29-Aug-96		30-Sep-03	MY-115841-A	30-Sep-18	EFM+ improved
NL	N 012571 -	89201206.3	12-May-89	0342748-A1	02-Feb-94	0342748	12-May-09	Application code on information carrier
NL	N 012925 -	90201094.1	02-May-90	0397238-A1	22-Nov-95	0397238	02-May-10	Additional information in pregroove
NL	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ -Modulation scheme for high density disc.
NL	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format, with error coding interleave.
NL	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
NL	Q 088002 -	89200093.6	17-Jan-89	0325329-A1	01-Dec-93	0325329	17-Jan-09	WO linking rules
NO	N 014746 -	19963388	01-Feb-95		18-Dec-06	322948	01-Feb-15	EFM+ -Modulation scheme for high density disc.
NO	N 014746 A	20043831	01-Feb-95				01-Feb-15	EFM+ -Modulation scheme for high density disc.
NO	N 014746 B	20043830	01-Feb-95				01-Feb-15	EFM+ -Modulation scheme for high density disc.

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NZ	N 014746 -	278137	01-Feb-95	278137	23-Jun-97	278137	01-Feb-15	EFM+ -Modulation scheme for high density disc.
PL	N 014746 -	P319407	01-Feb-95		04-Mar-02	192729	01-Feb-15	EFM+ -Modulation scheme for high density disc.
PL	N 014746 A	P378756	01-Feb-95				01-Feb-15	EFM+ -Modulation scheme for high density disc.
PL	N 015452 -	P320006	26-Aug-96		18-Oct-02	183099	26-Aug-16	EFM+ improved
PT	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ -Modulation scheme for high density disc.
PT	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format, with error coding interleave.
PT	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
RO	N 014746 -	96-001653	01-Feb-95		30-Mar-04	119099	01-Feb-15	EFM+ -Modulation scheme for high density disc.
RO	N 014746 A	01-00059	01-Feb-95		30-Apr-04	119260	01-Feb-15	EFM+ -Modulation scheme for high density disc.
RU	N 014746 -	96118250	01-Feb-95	33	27-Jul-00	2153707	01-Feb-15	EFM+ -Modulation scheme for high density disc.
RU	N 015452 -	97108582	26-Aug-96	15	20-Jul-00	2153200	26-Aug-16	EFM+ improved
SE	N 012571 -	89201206.3	12-May-89	0342748-A1	02-Feb-94	0342748	12-May-09	Application code on information carrier
SE	N 012925 -	90201094.1	02-May-90	0397238-A1	22-Nov-95	0397238	02-May-10	Additional information in pregroove
SE	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	0745254	01-Feb-15	EFM+ -Modulation scheme for high density disc.
SE	N 014752 -	95907127.5	14-Feb-95	0698270-A1	26-Jul-00	0698270	14-Feb-15	Block format, with error coding interleave.
SE	N 015452 -	96926545.3	26-Aug-96	0789910-A1	23-May-01	0789910	26-Aug-16	EFM+ improved
SG	N 012571 -	9691114.4	12-May-89		28-Jun-96	31864	12-May-09	Application code on information carrier
SG	N 012925 -	9691526.9	02-May-90		29-Jul-96	32139	02-May-10	Additional information in pregroove
SG	N 014752 -	9607077.6	14-Feb-95	0050623-A	24-Dec-01	50623	14-Feb-15	Block format, with error coding interleave.
SG	N 015452 -	9703300.5	26-Aug-96		15-Feb-02	44185	26-Aug-16	EFM+ improved
SG	Q 088002 -	9591726.6	17-Jan-89		29-Jan-96	23939	17-Jan-09	WO linking rules
SG	Q 088006 -	9491007.2	13-Apr-88		30-Mar-95	30001	13-Apr-08	Premastered information about write strategy
SI	N 014746 -	95905746.4	01-Feb-95	0745254-A1	04-Nov-98	9530188	01-Feb-15	EFM+ -Modulation scheme for high density disc.
SK	N 012571 -	89-PV2870	12-May-89		14-Mar-00	280684	12-May-09	Application code on information carrier
SK	N 014746 -	96-PP1051	01-Feb-95	96-PP1051	19-Nov-03	283798	01-Feb-15	EFM+ -Modulation scheme for high density disc.
TR	N 014746 -	95-0136	15-Feb-95		22-Oct-02	29626	15-Feb-15	EFM+ -Modulation scheme for high density disc.
TR	N 014752 -	95-0143	16-Feb-95		03-May-99	29401	16-Feb-15	Block format, with error coding interleave.



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TW	N 012571 -	77108160	23-Nov-88		12-Dec-90	40996	23-Nov-08	Application code on information carrier
TW	N 012925 -	78109833	19-Dec-89		24-Jan-91	41954	19-Dec-09	Additional information in pregroove
TW	N 013146 -	79108193	01-Oct-90	56055	12-Aug-92	56055	01-Oct-10	Discontinuous recording/reading using buffers
TW	N 014746 -	84101360	15-Feb-95	294862	15-Apr-97	82864	15-Feb-15	EFM+ -Modulation scheme for high density disc.
TW	N 014752 -	84101856	28-Feb-95	256904	20-Dec-95	73076	28-Feb-15	Block format, with error coding interleave.
TW	N 014789 -	84101322	14-Feb-95	267279	11-Apr-96	75391	14-Feb-15	DC-free channel code
TW	N 015452 -	85112032	02-Oct-96	394931	19-Oct-00	116382	02-Oct-16	EFM+ improved
TW	N 016078 -	86116202	30-Oct-97	367488	21-Dec-99	105824	30-Oct-17	Micro formatting
TW	Q 087009 -	77100278	18-Jan-88		15-Dec-89	33559	18-Jan-08	Premastered information about write strategy
TW	Q 088002 -	77107568	02-Nov-88		04-Jul-90	37728	02-Nov-08	WO linking rules
UA	N 014746 -	96083269	01-Feb-95		15-Nov-01	42757	01-Feb-15	EFM+ -Modulation scheme for high density disc.
US	N 006493 K	90/007336					26-Mar-08	Read out of optical disc via substrate
US	N 009666 C	07/375620	25-Jul-89		28-Oct-97	5682365	28-Oct-14	Recording apparatus using pregrooved clock in disc
US	N 012571 -	07/287941	20-Dec-88		22-Oct-91	5060219	20-Dec-08	Application code on information carrier
US	N 012925 W	08/041141	31-Mar-93		23-May-95	5418764	23-May-12	Additional information in pregroove
US	N 012925 X	08/390451	17-Feb-95		05-Aug-97	5654947	05-Aug-14	Additional information in pregroove
US	N 013146 A	07/896803	09-Jun-92		18-May-93	5212678	28-Sep-10	Discontinuous recording/reading using buffers
US	N 013146 B	08/003345	12-Jan-93		31-Oct-95	5463607	31-Oct-12	Discontinuous recording/reading using buffers
US	N 014746 -	08/385533	08-Feb-95		09-Dec-97	5696505	08-Feb-15	EFM+ -Modulation scheme for high density disc.
US	N 014746 A	08/900275	08-Feb-95		06-Jul-99	5920272	08-Feb-15	EFM+ -Modulation scheme for high density disc.
US	N 014746 K	90/006637	09-May-03				09-May-23	EFM+ -Modulation scheme for high density disc.
US	N 014746 R	09/899091	08-Feb-95				08-Feb-15	EFM+ -Modulation scheme for high density disc.
US	N 014752 -	08/389369	16-Feb-95		17-Nov-98	5838696	16-Feb-15	Block format, with error coding interleave.
US	N 014752 B	09/136650	19-Aug-98		04-Apr-00	6047397	16-Feb-15	Block format, with error coding interleave.
US	N 014789 -	08/388865	15-Feb-95		24-Jun-97	5642113	15-Feb-15	DC-free channel code
US	N 015452 -	08/706048	30-Aug-96		04-Aug-98	5790056	30-Aug-16	EFM+ improved
US	N 016078 A	09/636723	11-Aug-00		19-Mar-02	6359844	17-Nov-17	Micro formatting

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US	Q 088002 B	07/795293	19-Nov-91		16-Feb-93	5187699	16-Feb-10	WO linking rules
US	Q 088006 A	07/538587	14-Jun-90		19-Mar-91	5001692	08-Apr-08	Premastered information about write strategy
VE	N 015452 -	96-1517	30-Aug-96		07-Oct-02	57944	30-Aug-16	EFM+ improved
VN	N 014746 -	S19960099	13-Aug-96		25-Oct-00	1407	13-Aug-11	EFM+ -Modulation scheme for high density disc.
VN	N 015452 -	S19970327	25-Apr-97		27-Nov-00	1598	25-Apr-17	EFM+ improved
ZA	N 014746 -	95-1115	10-Feb-95		30-Oct-96	95-1115	10-Feb-15	EFM+ -Modulation scheme for high density disc.
ZA	N 014752 -	951194	14-Feb-95		30-Oct-96	95-1194	14-Feb-15	Block format, with error coding interleave.
ZA	N 015452 -	967261	27-Aug-96		27-May-98	96/7261	27-Aug-16	EFM+ improved